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SHARP 21H-FX3P OPERATION MANUAL

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sharp corporation
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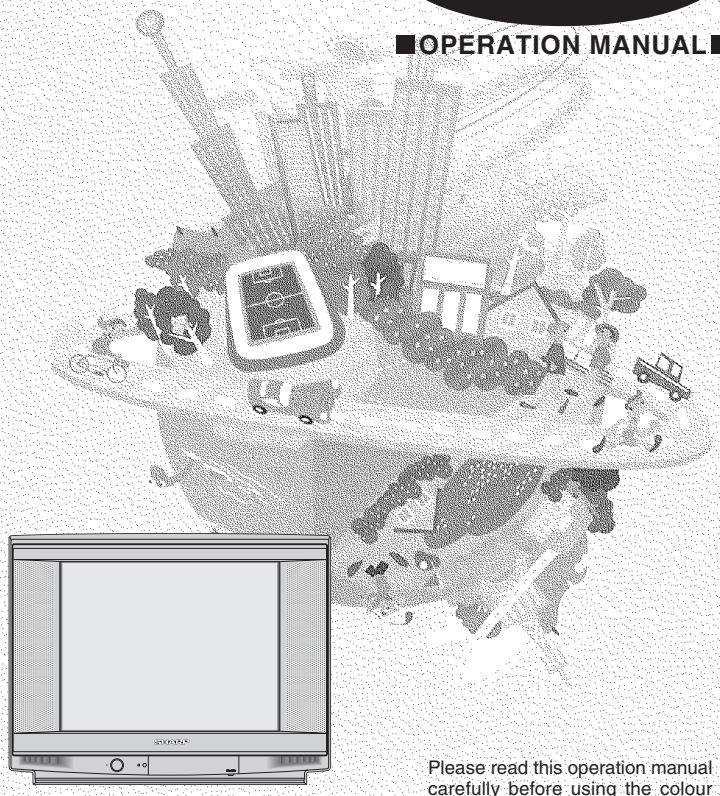
SHARP®

COLOUR TELEVISION

MODEL

21H-FX3P

■OPERATION MANUAL■



Please read this operation manual carefully before using the colour television.

TINS-B566WJZZ
04P12-MSP

21/10/04, 2:00 PM
Dimension: 352 x 250 mm

SHARP®
RP CORPORATION

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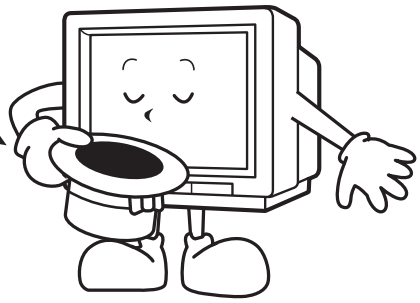
Dear SHARP Customer

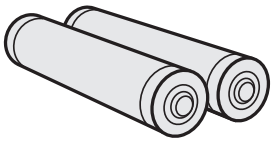
Thank you for buying SHARP's Colour Television. We hope you will have many years of enjoyment from this television set. To ensure proper operation, please read this manual carefully, and keep it in a safe place for future reference.



Accessories

The following accessories are included with this television.

Remote control



Size-AA batteries

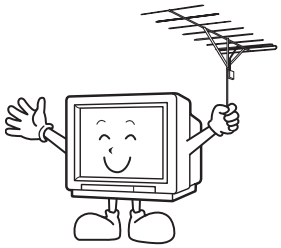
Operation manual

NOTE • Remove the power cord from the electrical outlet before connecting the antenna to the rear of the TV set.

Easy setup

To use your TV set, perform the easy setup procedure below.
The mark indicates the page numbers with more detailed information.

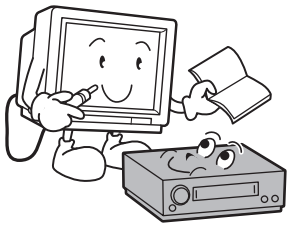
1



Connect the antenna.

- See **34** to connect the antenna.

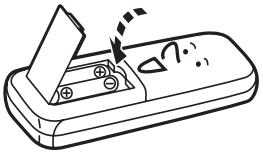
2



Connect any video equipment.

- See **34**, **35** to connect video equipment.
- See the operation manual of your video equipment when connecting to the TV set.

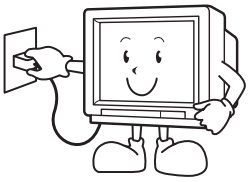
3



Insert the batteries into the remote control.

- Use the two batteries included with the TV.
- See **6**.

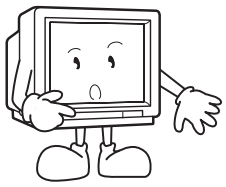
4



Insert the AC plug to the power outlet.

- If you will not use the TV set for a considerable length of time, as a safety precaution, unplug the cord from the outlet.

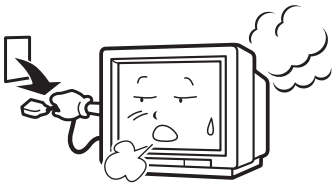
5



Tune the channels.

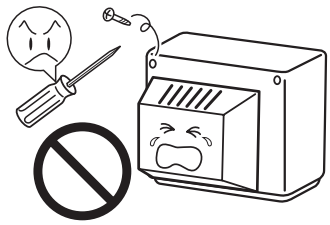
- Use the buttons on the TV.
- See **16**, **17**.

Safety precautions



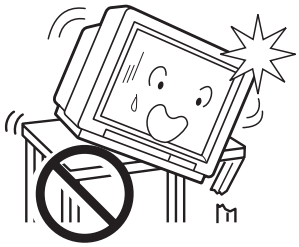
Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.



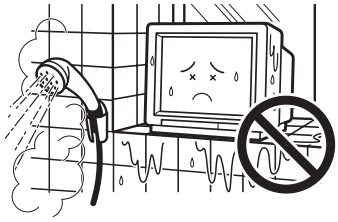
Servicing

To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.



Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set.
Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

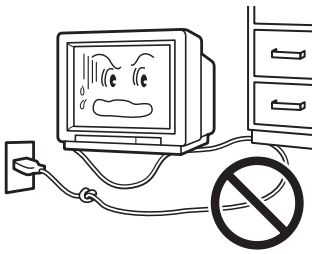


Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

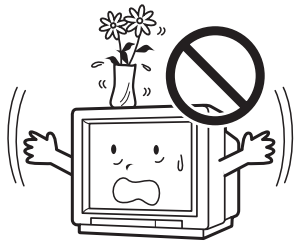
Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.



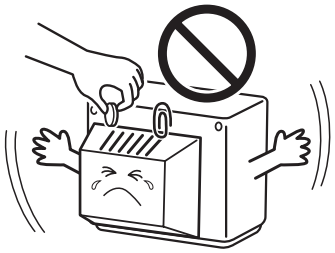
Power-cord protection

To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.



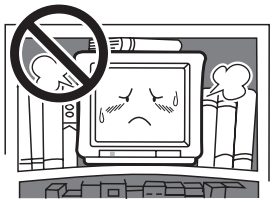
Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.



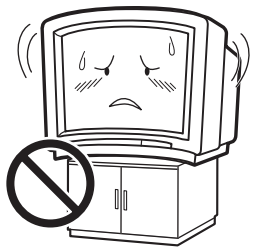
Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.



Ventilation

Do do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.



TV Set position

Do place the TV set onto an even stand, table or track which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort.
Do not put or insert anything between TV set and the stand, table or track.

Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

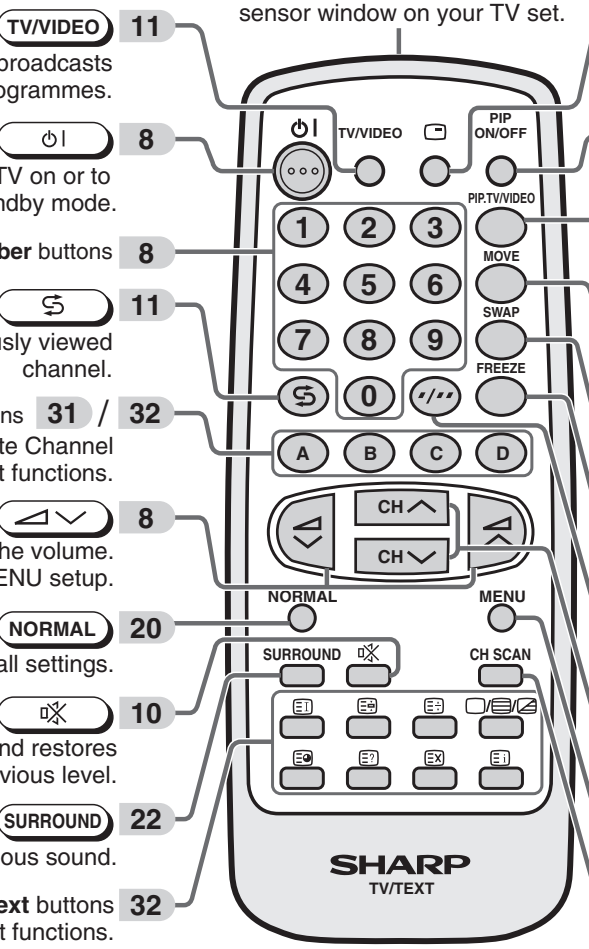
Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

Part names

The mark indicates the page numbers with more detailed information.

Remote control



TV/VIDEO 11
Switches between TV broadcasts and A/V input programmes.

8
Turns the TV on or to Standby mode.

Number buttons 8

11
Returns to previously viewed channel.

Colour buttons 31 / 32
Operate the Favourite Channel and Teletext functions.

8
Adjusts the volume. Used for MENU setup.

NORMAL 20
Resets all settings.

10
Mutes the sound and restores sound to previous level.

SURROUND 22
Produces a more spacious sound.

Teletext buttons 32
Operate the Teletext functions.

10
Displays the channel and timer settings on the screen.

PIP ON/OFF 13
Turn PIP "ON" or "OFF".

PIP.TV/VIDEO 13
Switches channel selection of inset screen.

MOVE 13
To move the position of inset screen.

SWAP 13
Exchange displayed.

FREEZE 13
To stop moving image of inset screen.

8
Switches between one- or two-digit mode channel selection.

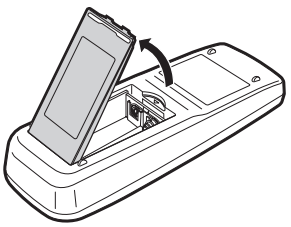
CH / **CH** 8
Selects the channel. Used for MENU setup.

MENU 14
Calls the MENU screen.

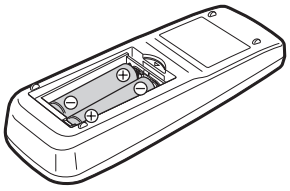
CH SCAN 12
Scan and tune in the channel.

Installing batteries in the remote control unit

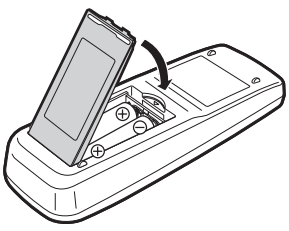
1 With your thumbnail, pull up at the slit to open the battery cover.



2 Insert two batteries (size AA).



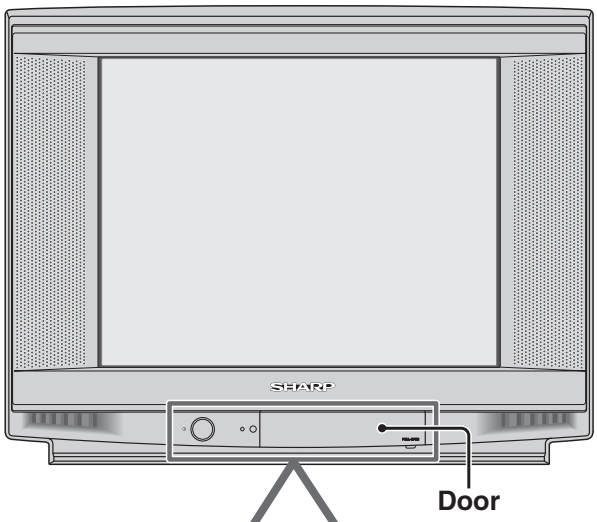
3 Replace the battery cover.



NOTE

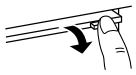
- Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.
- Remove the batteries if weak or if the unit is not in use for long periods.
- Do not mix old and new batteries.
- Incorrect installation of the batteries may damage the remote control.

TV set

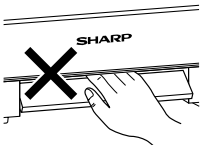


To open the door
Using the projection located under the “PULL-OPEN” indication, pull and lift the door open.

To close the door
Using the projection, lower the door until closed.



Caution:
- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



Bottom

9 Headphone jack
Used to listen to the audio with headphone.

8 ⏻
Power switch
Turns on and off the main power.

35 S-Video input terminal (SAV-2)
Connects to a camcorder, video game, etc.

8 Power indicator
Power can be turned on by the remote control when the indicator is dimly.

35 Video input terminal (AV-2)
Connects to a camcorder, video game, etc.

35 Audio input terminals (AV-2)
Connects to a camcorder, video game, etc.

Infrared sensor window **6**
Receives the infrared wave from the remote control.

8 CH ∧ / CH ∨
Channel up/down buttons
Selects the channels.
Tunes or sets the channels.

MENU/PRESET **14**
MENU/PRESET button
Tunes the channels.
Used for MENU setup.

8 ◿∧ / ◿∨
Volume up/down buttons
Adjusts the volume.
Makes adjustments in PRESET.

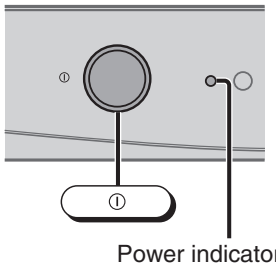
NOTE • When using headphone, see **9**.

Watching TV

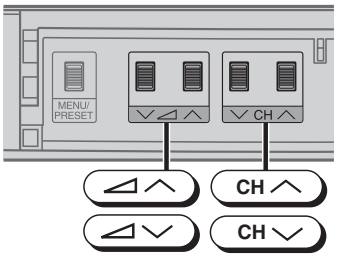
Watching a TV programme

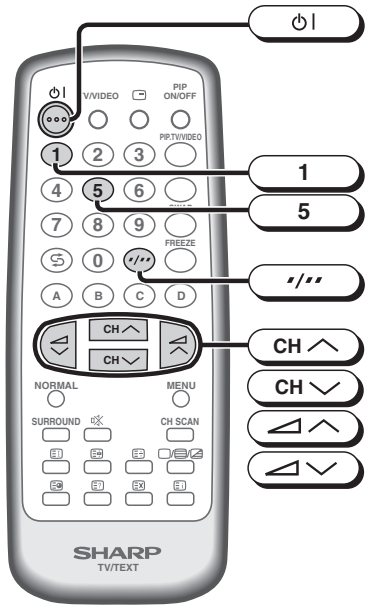
Simple operations for watching a TV programme

TV Set (Bottom)



Behind the door





1 **Turn on power.**

- When the power indicator is off, press ⏻.
- When the power indicator lights up dimly, press ⏻I on the remote control. The power indicator changes to bright and a picture appears.

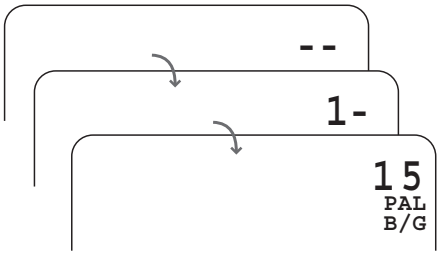
2 **Select channel.**

With CH ∧ / CH ∨

- Press CH ∧ and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 (or COMPONENT) → AV2 (or SAV2) → 0 → 1 → 2 ...
- Press CH ∨ and channels change as shown below.
  1 → 0 → AV2 (or SAV2) → AV1 (or COMPONENT) → 99 → 98 → ... → 2 → 1 → 0 ...

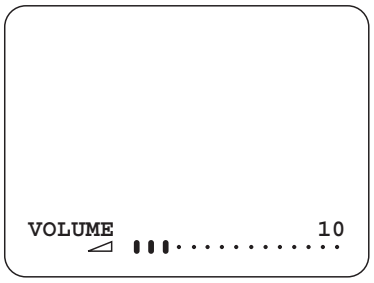
With the number buttons (on remote control)

- To select a one-digit channel, such as 5, press 5.
  If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.



3 **Adjust volume using 🔊∧ / 🔊∨.**

- The number of oval blocks "▮" indicates the volume level. The volume bar disappears approximately three seconds after the volume has been adjusted.



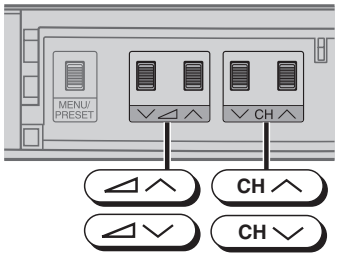
NOTE

- When the power indicator lights up dimly, either CH ∧ / CH ∨ on the TV can be pressed to turn on the power.
- The channel number is displayed in green for channels tuned by auto tuning and displayed in yellow for channels tuned using fine tuning.
- When the power indicator lights up dimly, the TV is in Standby mode and power is still supplied to the TV. If you will not watch TV for a while, turn off the main power by pressing ⏻ on the TV set. Also, if you will not be at home for a considerable length of time, unplug the cord from the outlet.
- The AV1 (or COMPONENT), AV2 (or SAV2) input channels cannot be selected using CH ∧ / CH ∨ on the remote control. Use TV/VIDEO to select these channel.
- Channels that have been skipped cannot be selected by CH ∧ / CH ∨. See 18.
- The on-screen displays in this manual may differ from their actual appearance.

Operating the TV buttons

Simple operation of the TV set

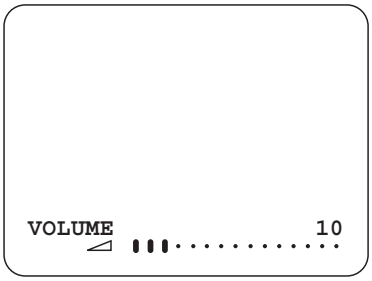
Behind the door



Using ◿^ / ◿v

Press ◿^ to increase volume.

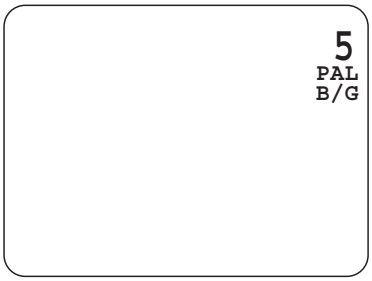
Press ◿v to decrease volume.



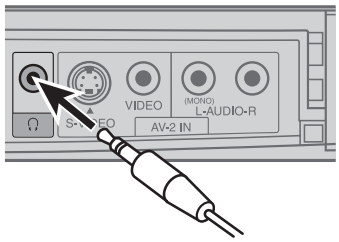
Using CH^ / CHv

Press CH^ to increase channel number.

Press CHv to decrease channel number.



Behind the door



Using headphone

Insert headphone plug into headphone jack to listen to audio with headphone.

• The audio from the speakers is turned off.

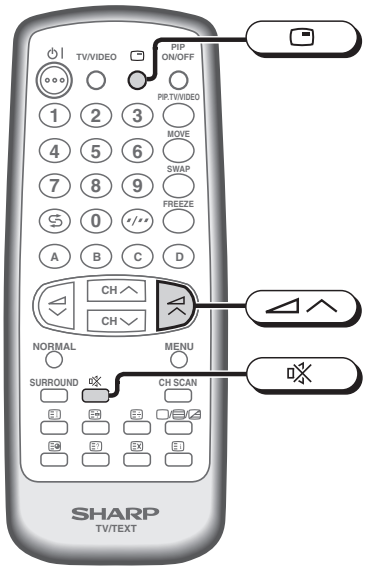
NOTE

- Select an appropriate volume so as not to injure your hearing.
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.
- The proper impedance for the headphone is 32 ohms.
- Remove the headphone plug from the jack when not using the headphone.

Useful features

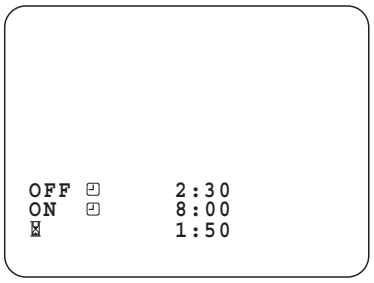
Channel/Timer display

Displays the current channel number, the timer, and other settings on the screen.



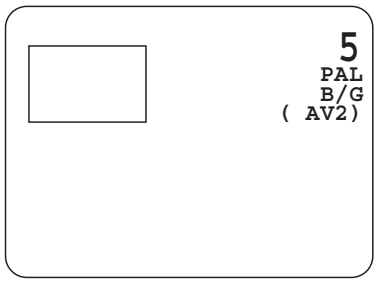
1 **Press** ( ).

- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no timer is set, the channel number, colour and sound system appear on the screen. Press ( ) again to clear these current settings display on the screen.



2 **Press** ( ) **again.**

- The channel number, colour and sound system appear on the screen.
- If ( ) is pressed with PIP set to "OFF", the INSET screen and channel number for INSET will not appear.
- When PIP is set to "ON", the channel number for INSET is displayed in parentheses ( ).



3 **Press** ( ) **once again.**

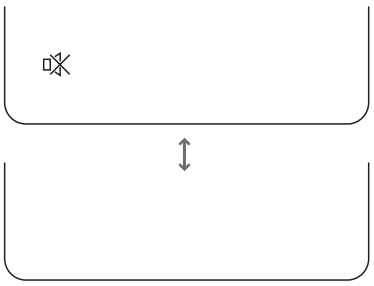
- The display disappears.

Mute

Silences the sound.

1 **Press** ( ).

- "" appears on the screen, and the sound is silenced.



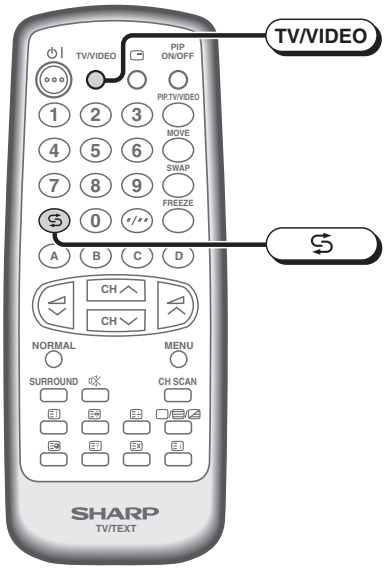
2 **Press** ( ) **again.**

- The volume returns to its previous level.

NOTE • Mute will be cancelled if the ( ) is pressed at any time.

Channel recall

Switches back to the channel you were watching just before the current channel.

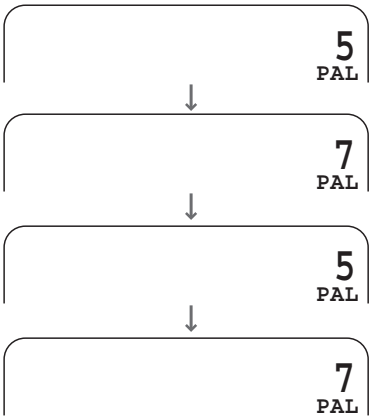


Press ⇆.

- The channel previously viewed returns to the screen.

Example:

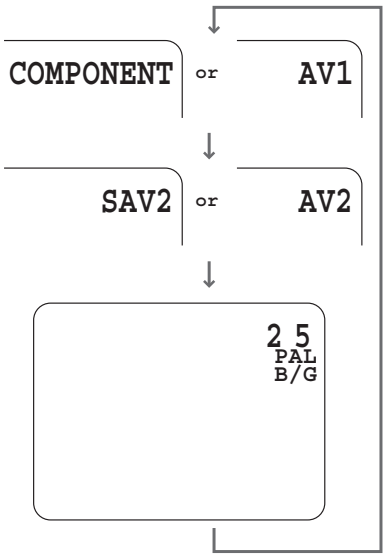
After switching from channel 5 to channel 7, ⇆ is pressed, the channel will change to channel 5. Press ⇆ again to return to channel 7.



TV/Video selection

Switches between TV broadcasts and AV input programmes.

Each time you press the TV/VIDEO, the input switches between AV1 (or COMPONENT), AV2 (or SAV2) and TV programme.

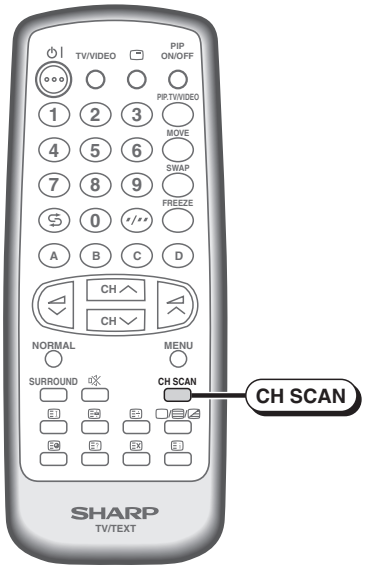


NOTE

- The input from S-VIDEO INPUT terminal has priority over the normal signal for AV2.
- The input from COMPONENT terminal has priority over the video signal from AV1.

Channel Scan

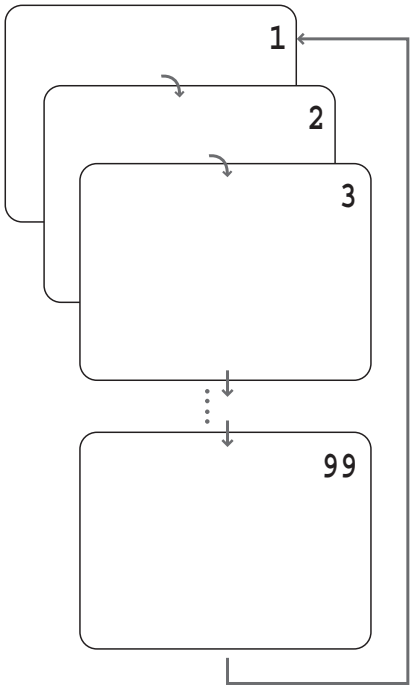
For fast and easy channel selection, this function displays each tuned channel in numeric order.



1 Press CH SCAN.

2 Each of the tuned channels is automatically displayed in numeric order, beginning and ending with the current channel.

3 Press CH SCAN to stop CHANNEL SCAN at any time.

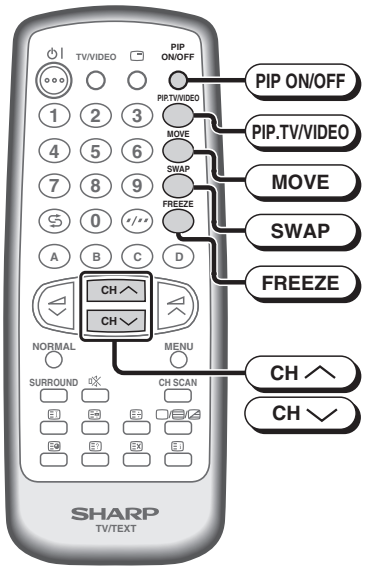


NOTE

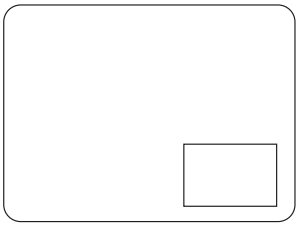
- Channel Scan does not work when the AV input screen is displayed.
- Skipped channels are not displayed.
- During PIP is set to “ON”, press CH SCAN
  - (i) If main screen and inset screen are TV channel, both screen will perform channel scanning.
  - (ii) If main screen is TV channel and inset screen is AV channel, only main screen will perform channel scanning.
  - (iii) If main screen and inset screen are AV channel, both screen will not perform channel scanning.
  - (iv) If main screen is AV channel and inset screen is TV channel, only inset screen will perform channel scanning.

Picture In Picture (PIP) Function

With the VIDEO input, you can watch two picture at same time: one from the TV channel and the other from the VIDEO input.



PIP On/Off



1 **Press (PIP ON/OFF).**

- The inset is displayed to indicate PIP is “ON”.

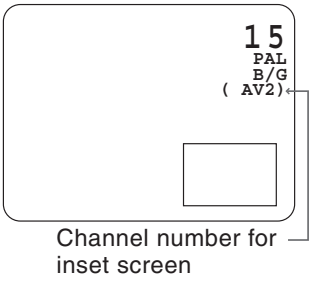
2 **Press (PIP ON/OFF) again.**

- The inset screen is disappears to indicate PIP is “OFF”.

Channel Selection of Inset Screen

1 **When (PIP.TV/VIDEO) is pressed, the input for the inset changes in the following order.**

→ AV1 (or COMPONENT) ⟶ AV2 (or SAV2) —
— TV programme ←



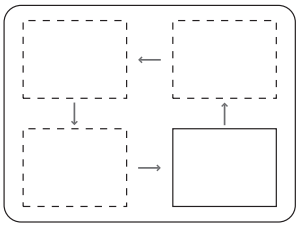
2 **When the inset is displayed, the channel number for INSET is changed by pressing (CH ∧) / (CH ∨).**

MOVE

1 **Press (PIP ON/OFF).**

- The inset is displayed.

2 **Press (MOVE) to move the inset position as shown on the right.**



SWAP/FREEZE

1 **When the inset is displayed, it is changed over with the main screen by pressing (SWAP).**

2 **The inset displays a still picture when (FREEZE) is pressed.**

- Pressing (SWAP) when FREEZE is activated will cancels FREEZE and the inset changes over with the main screen.
- Press (FREEZE) again to cancel the FREEZE mode.

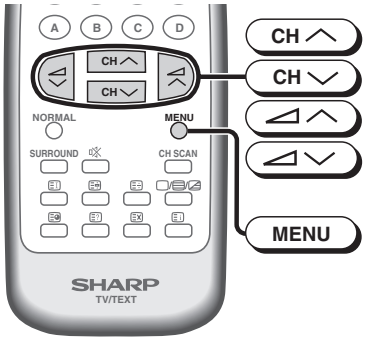
NOTE

- The same TV channel screen will be displayed for main screen and inset screen, if the selection channel of main screen and inset screen are TV channel.
- If AV2 terminals and S-Video terminal are connected, the on screen display of the inset shows SAV2.
- Even if the COMPONENT terminal is connected, the inset screen do not shows COMPONENT input signal.
- When the colour system between the main screen and the inset is different, the size (aspect ratio) of the inset screen might be bigger or smaller.

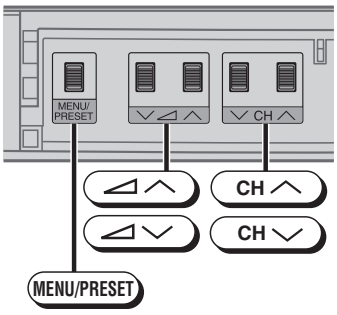
Selecting menu items

This TV set allows you to adjust the picture and sound, and set the channels and other features using the On-screen display with the remote control or from the TV set. Select the desired menu item by following the steps below and then refer to the indicated page for details.

Remote control



Behind the door



Selecting a menu item

1 **Press MENU / MENU/PRESET to call MENU screen.**

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 INSET
 CH-SETTING
```

2 **Press CH ^ / CH v to select desired menu item.**

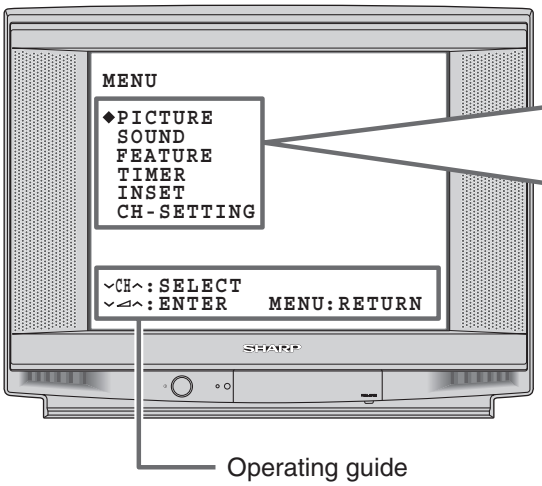
- The selected item is highlighted in yellow.

```
MENU

 PICTURE
◆SOUND
 FEATURE
 TIMER
 INSET
 CH-SETTING
```

3 **Press ◿^ / ◿v to enter.**

- The corresponding menu screen will appear.

```
SOUND

◆SURROUND          OFF
 TREBLE              0
 BASS                0
 BALANCE             0
```



PICTURE menu ····· 20

```
PICTURE

◆CONTRAST          60
 COLOUR             0
 BRIGHTNESS         0
 TINT
 SHARPNESS          0
 WHITE TEMP      ◆──●──◇

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

SOUND menu ····· 21

```
SOUND

◆SURROUND          OFF
 TREBLE              0
 BASS                0
 BALANCE             0

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

FEATURE menu ····· 23 – 26

```
FEATURE

◆BACKGROUND        RED
 SAFETY MODE       OFF
 CHILD LOCK

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

TIMER menu ····· 27 – 29

```
TIMER

◆OFF ↵             --:--
 ON  ↵             --:--
  POSITION
  VOLUME
 ⊠                 --:--

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

INSET menu ····· 30

```
INSET

◆BRIGHTNESS     -──●──+
 TINT               0

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

CH-SETTING menu ····· 18 – 19

```
CH-SETTING

◆POSITION          CH 7
 COLOUR            AUTO
 SOUND             B/G
 SKIP              OFF
 AUTO
 FINE(MANUAL)  168.25MHz

vCH^:SELECT
v◿^:ADJUST  MENU:RETURN
```

NOTE

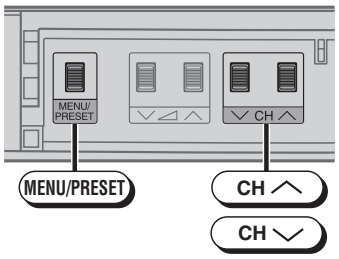
- If you press MENU/PRESET for more than two seconds, the LANGUAGE mode screen will appear instead of the MENU screen. To display the MENU screen, press MENU/PRESET until the normal screen appears, then press the button again.
- The procedures for setting and selecting the menu items on the following pages are described using the buttons on the remote control. These procedures can also be performed using the corresponding buttons on the TV set.

Settings and adjustments

On-screen display language selection

The on-screen display language can be set to Persian, Arabic, English or French.

Behind the door



TV set

1 **Press MENU/PRESET for more than two seconds.**

• The language select mode appear.

2 **Press CH / CH to select desired language.**

• Pressing MENU/PRESET changes the screen as shown below.

→ Language ⟶ AUTO ⟶ MANUAL
Normal screen ⟵

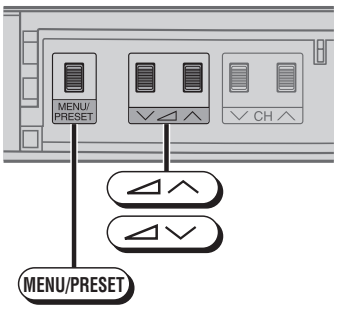
3 **Press MENU/PRESET until normal screen appears.**

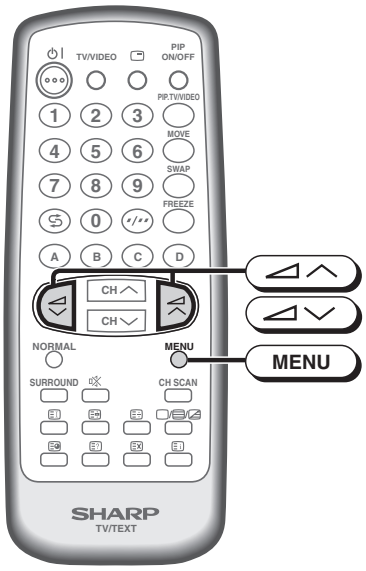
فارسی
العربية
◆ENGLISH
FRANCAIS

Auto channel tuning

Automatically tunes in and presets receivable TV stations.

Behind the door





1 **Press (MENU/PRESET) for more than two seconds.**

- The language select mode appear.

فارسي
العربية
◆ENGLISH
FRANCAIS

2 **Press (MENU/PRESET) again to display AUTO mode screen.**

- Pressing (MENU/PRESET) changes the screen as shown below.

→ Language ⟶ AUTO ⟶ MANUAL
Normal screen ←

AUTO(B/G)
VHF 1
48.25MHz

3 **Press (▲CH) / (▼CH) and Auto Channel Tuning is started.**

- All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.
- The screen shows whatever is on channel 1 when auto channel preset is finished.

1
PAL
B/G

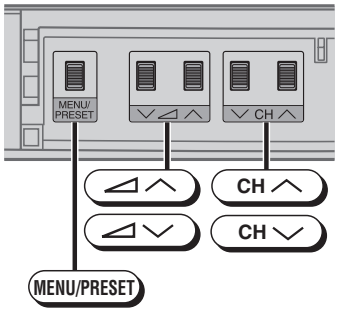
NOTE

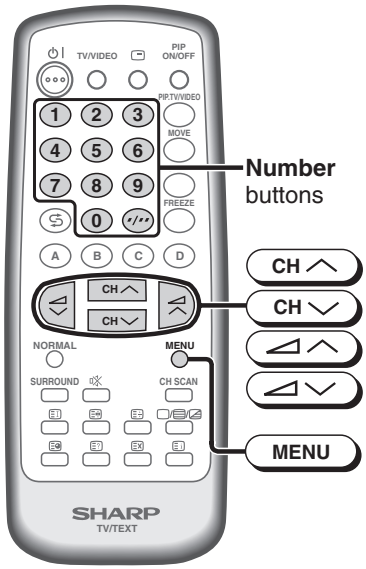
- Adjust the SOUND SYSTEM using the (MENU) on the remote control. When starting the AUTO PRESET after setting the SOUND SYSTEM with the (MENU), the SOUND SYSTEM for all the channels are stored into memory.
- AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET. See 17.
- Unused channels are automatically skipped.

Manual channel tuning

Enables manual channel tuning to a desired TV station.

Behind the door





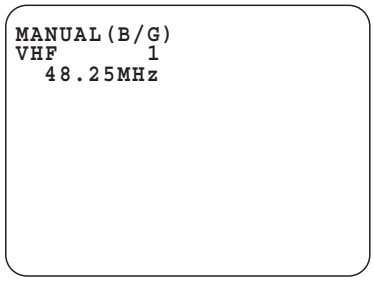
1 **Press (MENU/PRESET) for more than two seconds.**

- The language select mode appear.

2 **Press (MENU/PRESET) twice to display MANUAL mode screen.**

- Pressing (MENU/PRESET) changes the screen as shown below.

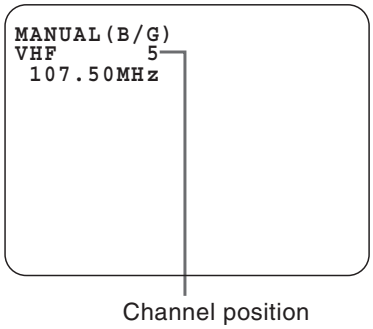
→ Language ⟶ AUTO ⟶ MANUAL ┐
Normal screen ⟵ ┘



3 **Press (CH ∧) / (CH ∨) or number buttons to select channel position.**

4 **Press (◿∧) / (◿∨) to locate channel you wish to preset to current channel position.**

- Search is initiated and when a TV signal is received during the search, the search stops.



5 **Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.**

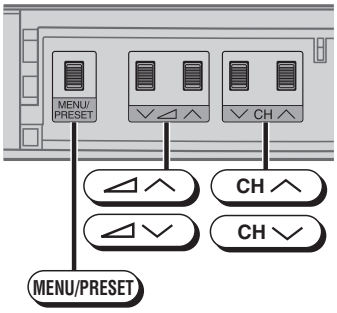
6 **Press (MENU/PRESET) again to display normal screen.**

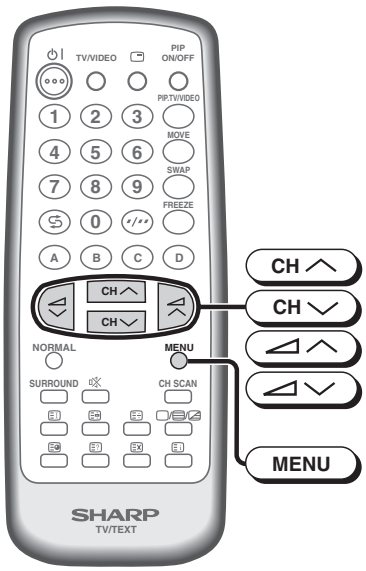
NOTE • SOUND SYSTEM may not have been set correctly, if noise can be heard or if there is no sound. In such case, adjust the SOUND SYSTEM using the (MENU) on the remote control.

Channel setting

Enables individual channel setting.

Behind the door





1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "CH-SETTING".

```
MENU

 PICTURE
 SOUND
 FEATURE
 TIMER
 INSET
◆CH-SETTING


∨CH∧:SELECT
∨◿∧:ENTER    MENU:RETURN
```

3 Press ◿∧ / ◿∨ to display CH-SETTING menu.

4 Press CH ∧ / CH ∨ to select desired setting.

5 Each time you press ◿∧ / ◿∨, setting for individual items changes as follows:

```
CH-SETTING

◆POSITION        CH 7
 COLOUR          AUTO
 SOUND           B/G
 SKIP            OFF
 AUTO
 FINE(MANUAL)  168.25MHz


∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**

  AUTO ↔ PAL ↔ SECAM ↔ N443 ↔ N358 ↔ (AUTO)
- **SOUND**

  B/G ↔ I ↔ D/K ↔ M ↔ (B/G)
- **SKIP**
  ON ↔ OFF
  Channel numbers with a "✚" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".

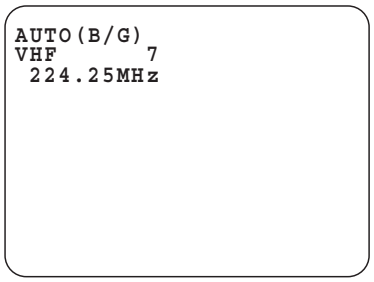
(continue)

Channel setting (continued)

• **AUTO**
The AUTO mode screen will appear.
(i) Pressing (MENU/PRESET) changes the screen as shown below.

AUTO ⟶ MANUAL ⟶ NORMAL SCREEN

(ii) Pressing ◿^ / ◿v again and Auto Channel Tuning is started.
(Please see page 16 for details on Auto Channel Tuning.)

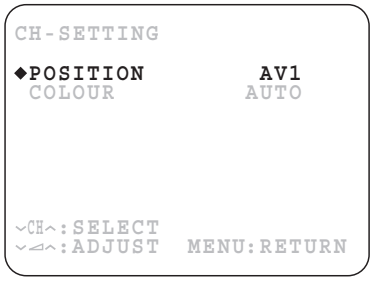


• **FINE (MANUAL)**
(i) Each time ◿^ / ◿v is pressed, the frequency changes to allow fine tuning and the colour of channel number changes to yellow.
(ii) Press ◿^ / ◿v for more than 4 seconds, the "Manual Channel Tuning" will start. If a signal is found, the Manual Channel Tuning will stop searching.
- Channel number in Red : Manual Channel Tuning is performing.
- Channel number in Green : Manual Channel Tuning is stop. Repeat (ii) above to continue Manual Channel Tuning.

6 **Press MENU until normal screen appears.**

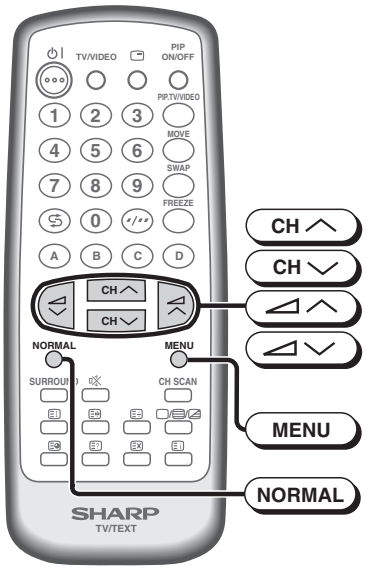
• When you select AV1, AV2 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:

AUTO ↔ PAL ↔ SECAM ↔ N358 ↔ N443



NOTE
- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- In a weak reception area, or under bad reception conditions, you can change the frequency by fine tuning.
- When using FINE, the channel number changes from green to yellow.
- To return the channel to its original frequency setting, follow the manual channel tuning procedure. See 17.
- Channel setting menu cannot be selected during COMPONENT mode.

Picture adjustment



1 **Press MENU to call MENU screen.**

2 **Press CH ∧ / CH ∨ to select "PICTURE".**

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 INSET
 CH-SETTING
```

3 **Press ◿∧ / ◿∨ to display PICTURE menu.**

4 **Press CH ∧ / CH ∨ to select adjustment items.**

```
PICTURE

◆CONTRAST          50
 COLOUR             0
 BRIGHTNESS       +10
 TINT
 SHARPNESS        -10
 WHITE TEMP       ◆ ├──┼──┤ ◇
```

5 **Adjust using ◿∧ / ◿∨.**

- Wait for approximately three seconds to return to PICTURE menu.

```
CONTRAST              50
-  ├──────────────┼──┤ +
```

6 **Repeat steps 4 and 5 above to adjust other items.**

7 **Press MENU until normal screen appears.**

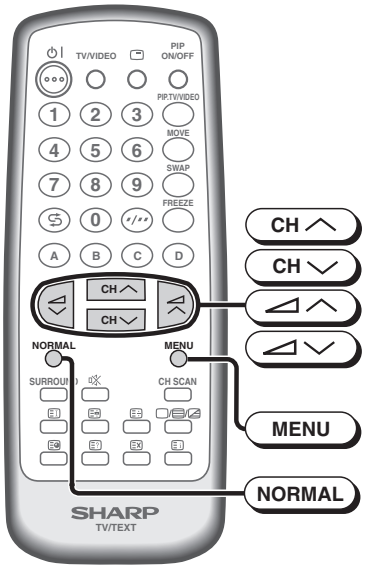
- Pressing NORMAL while a PICTURE selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while a PICTURE menu screen is displayed will reset all the items of PICTURE menu to the standard (factory-setting) position.

The following table lists the adjustment items shown in the PICTURE menu and how they change as you press ◿∧ / ◿∨.

Selected item	Press ◿∨		Press ◿∧
CONTRAST	To decrease contrast	- ← → +	To increase contrast
COLOUR	For less colour intensity	- ← → +	For more colour intensity
BRIGHTNESS	For less brightness	- ← → +	For more brightness
TINT*	To move tint toward red	◆ ← → ◇	To move tint toward green
SHARPNESS	For less sharpness	- ← → +	For more sharpness
WHITE TEMP	To more reddish background	◆ ← → ◇	To more bluish background

*: TINT can only be selected and adjusted when receiving NTSC broadcasts.

Sound adjustment



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "SOUND".

```
MENU

 PICTURE
◆SOUND
 FEATURE
 TIMER
 INSET
 CH-SETTING
```

3 Press ◿∧ / ◿∨ to display SOUND menu.

4 Press CH ∧ / CH ∨ to select adjustment items.

```
SOUND

 SURROUND        ON I
◆TREBLE          +10
 BASS            -20
 BALANCE         ▷20
```

5 Adjust using ◿∧ / ◿∨.

- Wait for approximately three seconds to return to SOUND menu.

```
TREBLE              +10
-  ├──────────┼──┤  +
```

6 Repeat steps 4 and 5 above to adjust other items.

7 Press MENU until normal screen appears.

- Pressing NORMAL while a SOUND selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while the SOUND menu screen is displayed will reset all the items of SOUND menu to the standard (factory-setting) position.

The following table lists the adjustment items shown in the SOUND menu and how they change as you press ◿∧ / ◿∨.

Selected item	Press ◿∨	Press ◿∧
SURROUND*	ON I ⟷ ON II ⟷ OFF	
TREBLE	To decrease treble	To increase treble
BASS	To decrease bass	To increase bass
BALANCE	To shift balance toward left	To shift balance toward right

*: SURROUND mode can be set to "ON I", "ON II" or "OFF". See 22.

Surround sound

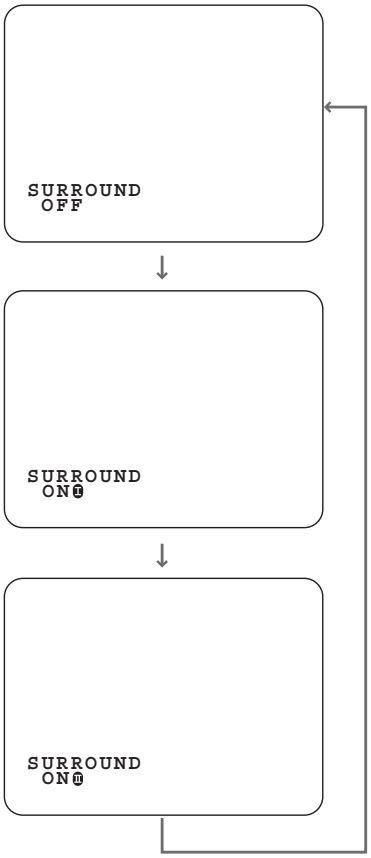
Produces a virtual surround sound from the TV's speakers.

Each time you press SURROUND, the mode changes between ON I, ON II and OFF.

OFF: Produces normal sound.

ON I : Setting to this mode during stereo signal reception produces a spacious sound, making the most of the speakers' performance.

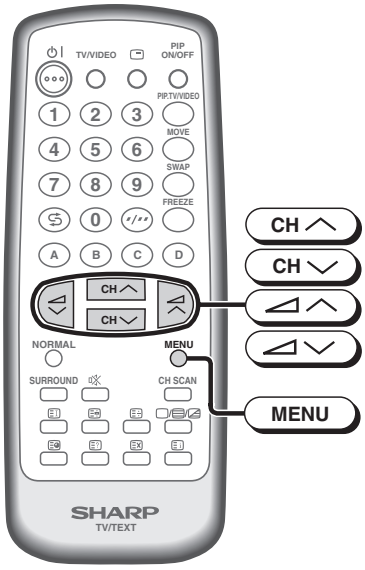
ON II : Setting to this mode during monaural signal reception creates monaural sound that is similar to stereophonic sound.



NOTE • The surround effect can be adjusted using the SOUND menu. See 21.

Background

Automatically turns the screen blue or red if the broadcast signal is not received.



1 Press MENU to call MENU screen.

2 Press CH ^ / CH v to select “FEATURE ”.

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 INSET
 CH-SETTING


CH^:SELECT
◁▷:ENTER    MENU:RETURN
```

3 Press ◁ ^ / ◁ v to display FEATURE menu.

4 Press CH ^ / CH v to select “BACKGROUND”.

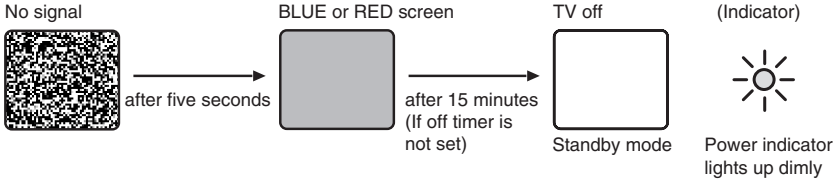
5 Press ◁ ^ / ◁ v to select “RED”, “BLUE” or “OFF”.

- RED : Red screen will appear.
- BLUE : Blue screen will appear.
- OFF : No signal screen will appear.

```
FEATURE

◆BACKGROUND      RED
 SAFETY MODE     OFF
 CHILD LOCK




CH^:SELECT
◁▷:ADJUST   MENU:RETURN
```

6 Press MENU until normal screen appears.

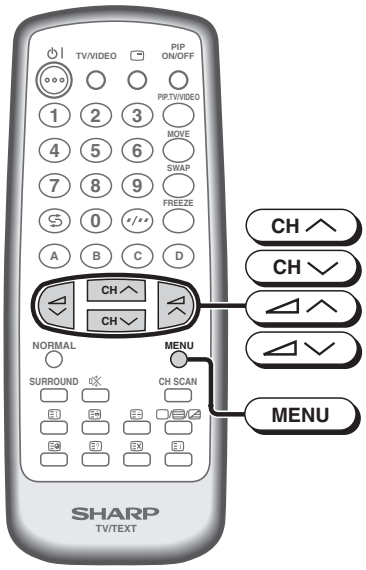
When BACKGROUND is set to “BLUE” or “RED”



NOTE • Poor reception due to weak signals and too much noise may activate BACKGROUND, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch “BACKGROUND” to “OFF”.

Safety Mode

Useful especially when power is returned from power failure with TV is ON. By this function set to “ON”, the TV last power status will be set to Standby Mode automatically.



1 Press MENU to call MENU screen.

2 Press CH ^ / CH v to select “FEATURE”.

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 INSET
 CH-SETTING


v CH ^ : SELECT
v ◿ ^ : ENTER    MENU:RETURN
```

3 Press ◿ ^ / ◿ v to display FEATURE menu.

4 Press CH ^ / CH v to select “SAFETY MODE”.

5 Press ◿ ^ / ◿ v to select “ON” or “OFF”.

```
FEATURE

 BACKGROUND      RED
◆SAFETY MODE     ON
 CHILD LOCK




v CH ^ : SELECT
v ◿ ^ : ADJUST  MENU:RETURN
```

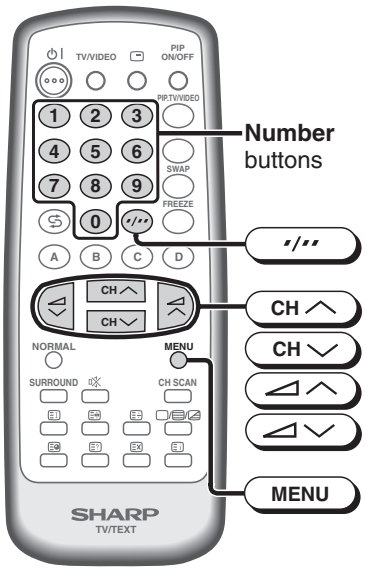
6 Press MENU until normal screen appears.

NOTE • This feature only work when the TV set is turned ON or OFF by ⏻ on the TV set or by the power supply.

Child Lock

By input 4-digits of password, all the TV operation will be locked. (Except POWER button)

Setting the CHILD LOCK mode



1 **Press MENU to call MENU screen.**

2 **Press CH ∧ / CH ∨ to select "FEATURE".**

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 INSET
 CH-SETTING
```

3 **Press ◁ ∧ / ◁ ∨ to display FEATURE menu.**

4 **Press CH ∧ / CH ∨ to select "CHILD LOCK".**

```
FEATURE

 BACKGROUND      RED
 SAFETY MODE     OFF
◆CHILD LOCK
```

5 **Press ◁ ∧ / ◁ ∨ to enter CHILD LOCK mode. "PLEASE INPUT PASSWORD" screen will appear.**

```
PLEASE INPUT PASSWORD

- - - -
```

6 **Enter 4 digits PASSWORD using Number buttons (0 - 9) on the remote control.**
(For example : 1234)

- Press -/-- to clear the entered number.

```
PLEASE INPUT PASSWORD

1234
```

7 **Press MENU.**
The "CHILD LOCK ON" screen will appear to indicate CHILD LOCK mode is activated.

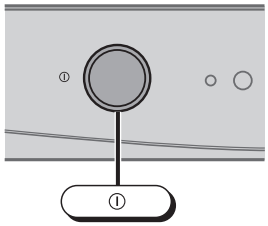
- The screen will appear in RED, if BACKGROUND is set to "RED".
- The screen will appear in BLUE, if BACKGROUND is set to "BLUE" or "OFF".

```
CHILD LOCK ON
```

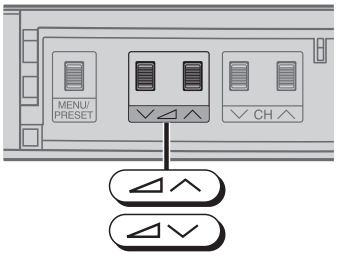
NOTE • If on step 7, MENU is not pressed, CHILD LOCK mode will not be activated.

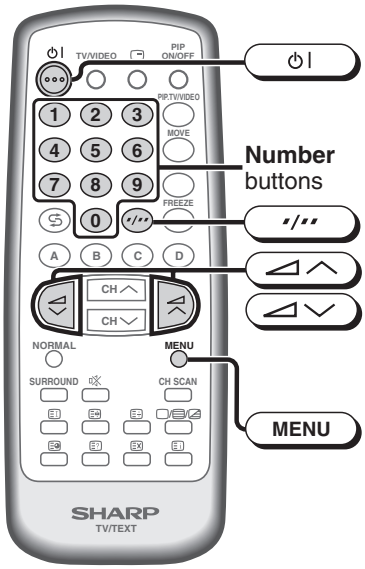
Clearing the CHILD LOCK mode

TV Set (Bottom)



Behind the door





While "CHILD LOCK ON" screen is appeared.

```
CHILD LOCK ON
```

1 **Press any buttons (except (⏻)) to display "PLEASE INPUT PASSWORD" screen.**

```
PLEASE INPUT PASSWORD
- - - -
```

2 **Enter 4 digits PASSWORD using Number buttons (0-9) on the remote control.**
(For example : 1234)

- Press (-/--) to clear the entered number.

```
PLEASE INPUT PASSWORD
*- - -
```

3 **The CHILD LOCK mode setting screen will appear as shown on the right.**
Press (◿ / ◿) / (◿ / ◿) to select "ON" or "OFF".

```
PLEASE INPUT PASSWORD
****
◆ON
```

- ON : Each time the TV is turned OFF and ON again, the CHILD LOCK mode is activated.
  To clear the CHILD LOCK mode, repeat step 2 above with previous password.
- OFF : CHILD LOCK mode will be deactivated.

4 **Press (MENU).**
The "CHILD LOCK OFF" screen will appear.

```
CHILD LOCK OFF
```

- If other key than (MENU) is pressed, "CHILD LOCK OFF" will not be displayed on the screen.

If the wrong PASSWORD is entered, "PASSWORD INCORRECT" screen will appear for approximately 4 seconds. Then "PLEASE INPUT PASSWORD" screen will appear again. Repeat step 2 to enter the correct PASSWORD.

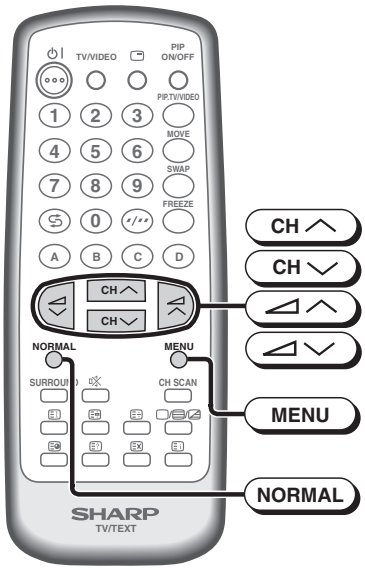
```
PASSWORD INCORRECT
```

NOTE

- Clearing CHILD LOCK cannot be done via MENU.
- When CHILD LOCK is "ON"
  (i) Only (⏻) on the TV set and (⏻) on the remote control are functioning.
  (ii) Sound is mute.
  (iii) If you forget your password, please input "2398" to reset.

Off timer

Automatically turns power off after a set length of time has passed.

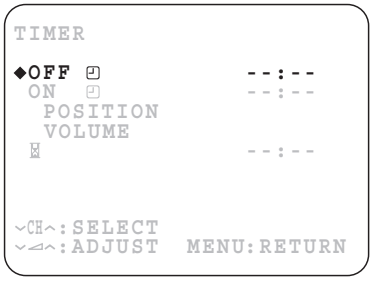


1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "TIMER".

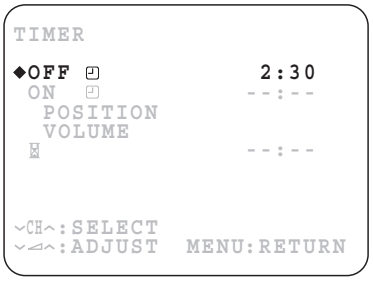
3 Press ◿∧ / ◿∨ to display TIMER menu.

4 Press CH ∧ / CH ∨ to select "OFF ⏎".



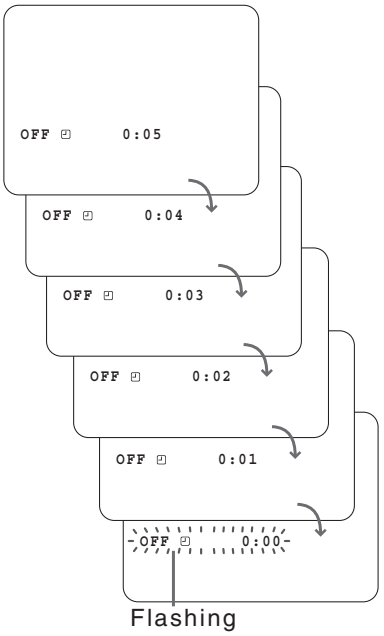
5 Press ◿∧ / ◿∨ to set time for TV to turn off.

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.



6 Press MENU until normal screen appears.

- Five minutes before the preset length of time expires (in the example, after two hours and 25 minutes), the remaining time appears on the screen.
- A flashing display of the remaining time appears during the last few seconds.
- When the preset length of time has passed, the TV set enters the Standby mode.

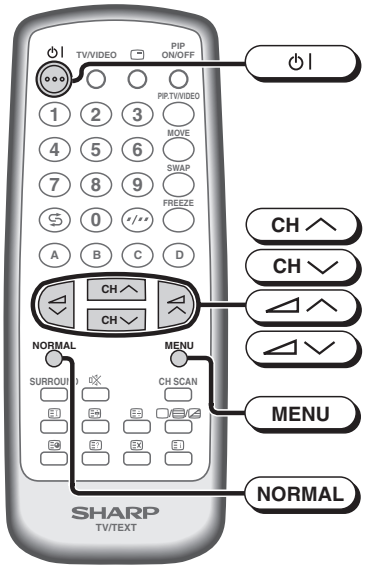


NOTE

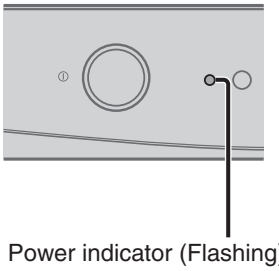
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "OFF ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The Off timer is cancelled if the power is turned off or set to the Standby mode using ⏻I on the remote control or ⏻ on the TV set, or if the power is otherwise interrupted.

On timer

Automatically turns power on after a set length of time has passed.



TV Set (Bottom)



Power indicator (Flashing)

1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "TIMER".

```
MENU

 PICTURE
 SOUND
 FEATURE
◆TIMER
 INSET
 CH-SETTING
```

3 Press ◿∧ / ◿∨ to display TIMER menu.

4 Press CH ∧ / CH ∨ to select "ON ⏎".

```
TIMER

 OFF ⏎          --:--
◆ON  ⏎          --:--
  POSITION
  VOLUME
 ⧗              --:--
```

5 Press ◿∧ / ◿∨ to set time for TV to turn on.

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.

```
TIMER

 OFF ⏎          --:--
◆ON  ⏎           8:00
  POSITION         --
  VOLUME           --
 ⧗              --:--
```

6 Press CH ∧ / CH ∨ to select "POSITION".

7 Press ◿∧ / ◿∨ to set the channel.

```
TIMER

 OFF ⏎          --:--
 ON  ⏎           8:00
◆ POSITION       CH28
  VOLUME           --
 ⧗              --:--
```

8 Press CH ∧ / CH ∨ to select "VOLUME".

9 Press ◿∧ / ◿∨ to set volume.

10 Press MENU until normal screen appears.

```
TIMER

 OFF ⏎          --:--
 ON  ⏎           8:00
  POSITION       CH28
◆ VOLUME           20
 ⧗              --:--


∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

11 Press ⏻ to put TV set into Standby mode.

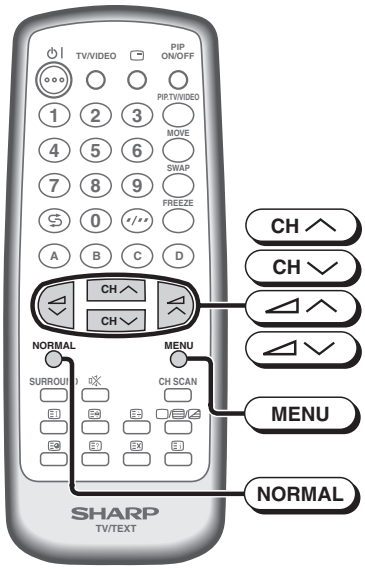
- Power indicator will flash to indicate On Timer is set.
- When the preset length of time (in the above example, eight hours) has passed, the power turns on and a picture appears on the screen.
- The ON TIMER speaker volume gradually increases from zero to preset volume.

NOTE

- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "ON ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The On Timer is cancelled if the power is turned off using ⏻.
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.

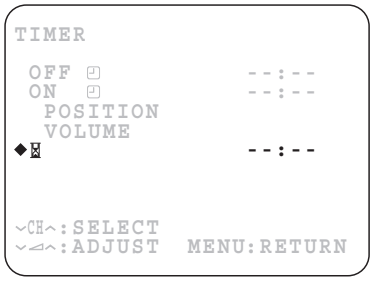


1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "TIMER".

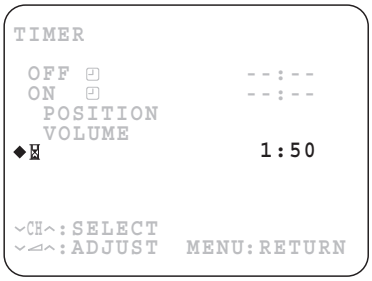
3 Press ◿∧ / ◿∨ to display TIMER menu.

4 Press CH ∧ / CH ∨ to select "⧖".



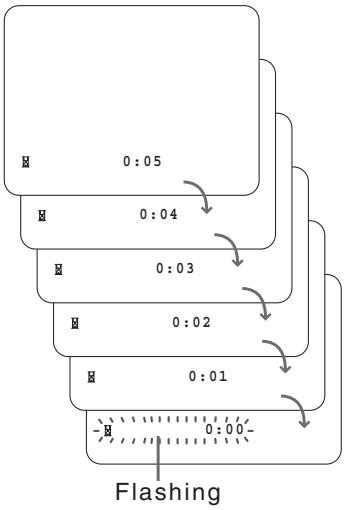
5 Press ◿∧ / ◿∨ to set time.

- Maximum time that can be preset is 12 hours and 50 minutes.
- The right example shows that the Reminder will be activated after one hour 50 minutes.



6 Press MENU until normal screen appears.

- Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.
- When the preset length of time has passed, "⧖ 0:00" flashes in red.

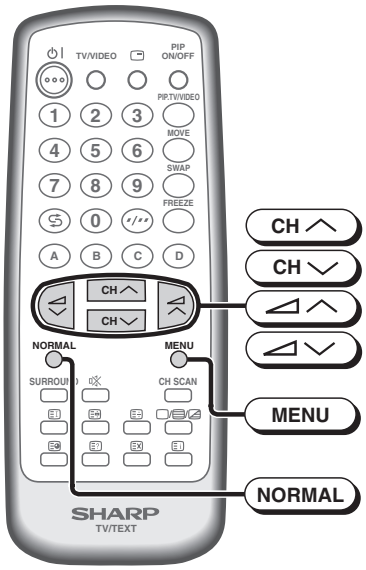


NOTE

- This function also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 1 minute if no buttons are pressed on the TV set or remote control.
- The Reminder is cancelled if ⏻ on the TV set is pressed or if the power is otherwise interrupted.
- The timer can be set in ten-minute intervals.
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "⧖" so as to set the timer to "- - : - -".

Inset adjustment

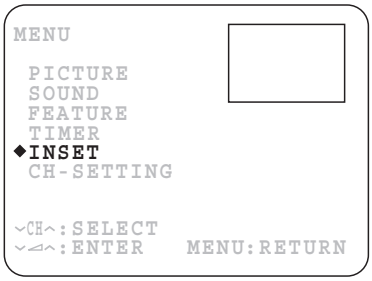
Adjusting the Inset



1 **Press MENU to call MENU screen.**

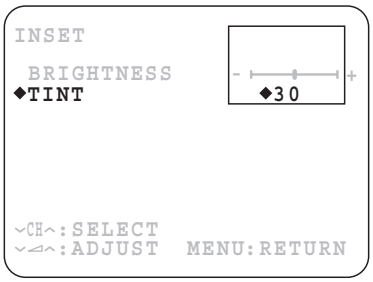
2 **Press CH ∧ / CH ∨ to select "INSET".**

- When PIP is set to "OFF", INSET cannot be selected.



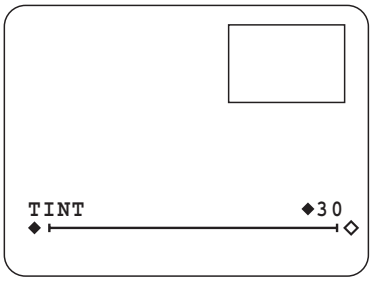
3 **Press ◿∧ / ◿∨ to display INSET menu.**

4 **Press CH ∧ / CH ∨ to select adjustment item.**



5 **Adjust using ◿∧ / ◿∨.**

- Wait for approximately three seconds to return to INSET menu.



6 **Repeat steps 4 and 5 above to adjust other item.**

7 **Press MENU until normal screen appears.**

- Pressing NORMAL while an INSET selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while an INSET menu screen is displayed will reset all the items of INSET menu to the standard (factory setting) position.

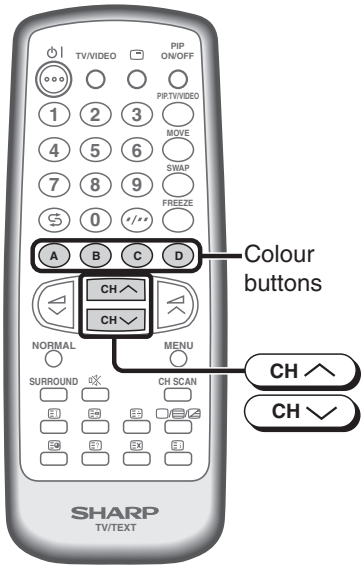
The following table lists the adjustment items shown in the INSET menu and how they change as you press ◿∧ / ◿∨.

Selected item	Press ◿∨		Press ◿∧
BRIGHTNESS	For less brightness	-⊢●⊣+	For more brightness
TINT*	To move tint toward red	◆⊢●⊣◇	To move tint toward green

*: TINT can only be selected and adjusted when receiving NTSC broadcast.

Favourite channels

The colour buttons can be used to select up to four favourite channels.



1 **Press CH ∧ / CH ∨ to select your favourite channel. (e.g. Channel 12)**

2 **Press A, for example, until channel number turns to white.**

- The display will disappear after three seconds, and then the selected channel is preset.

12
Displayed in green or yellow

12
Turns to white

3 **To watch favourite channel, press A.**

- The preset favourite channel will be displayed. (e.g. Channel 12)

12

4 **To preset another favourite channel, repeat steps 1 and 2 above.**

- To change a preset favourite channel, repeat steps 1 and 2 above.

Broadcast features

Teletext broadcasts

Colour buttons (A, B, C, D)

- If link-page data are transmitted from the TV station, each link-page can be viewed using the **Colour** buttons.
- If no link-page data are transmitted, pressing a **Colour** button selects the following pages, respectively:

RED (A) : Current page No. plus 1.
GREEN (B) : Current page No. plus 2.
YELLOW (C) : Current page No. plus 3.
CYAN (D) : Current page No. minus 1.

NOTE

- When using this function, please wait for approximately 30 seconds to set, after the channel is selected.
- The transmitted page can also be selected by pressing CH ∧ or CH ∨.

Text Page Selectors (0–9)

- While the TV is in Text, Mix, or Cancel mode, the **number** buttons (0-9) can be used to directly select a page of the Teletext broadcast that has a 3-digit number.

(Top/Bottom/Full button)

- Press to enlarge the top half of the Teletext image presently on the screen.
- Press a second time to enlarge the bottom half of the Teletext image presently on the screen.
- Press a third time to restore the regular Teletext image.
- Press a fourth time to return to the start of the sequence.

(Hold button)

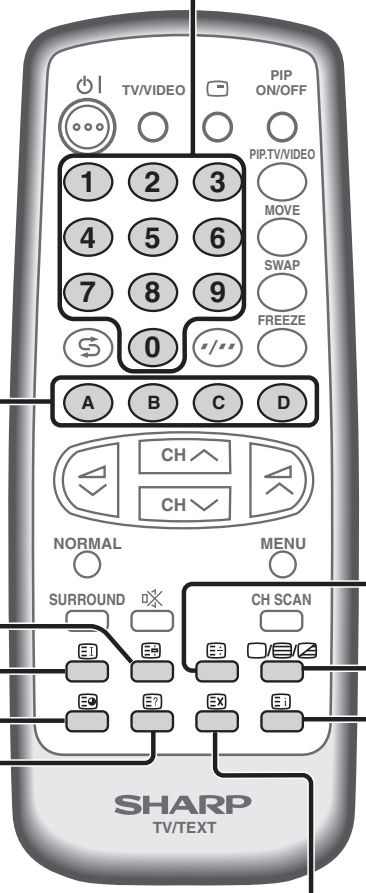
- Press to freeze the Teletext image presently on the screen.
- Press again to turn off Freeze mode.

(Index button)

- Press to display the index page.

(Time button)

- While the TV is in Text, Mix, or Cancel mode, use to specify the subcode (S****) for Teletext pages transmitted in Multi-page mode.
  Enter the desired subcode using the **numeric** buttons (0-9).
- If the TV station currently being viewed is broadcasting Teletext, the present-time information can be displayed on the screen by pressing .



(Picture/Text/Mix button)

- Press to display the initial page of a Teletext broadcast.
- Press a second time to simultaneously display the TV picture and Teletext in a mix screen format.
- Press a third time to cancel to return to TV mode.

(Reveal button)

- Press to display hidden information, such as the answers to a quiz.
- Press a second time to hide the displayed information.
- Press a third time to return to the start of the sequence.

(Cancel button)

- Press to return to TV mode, and the **number** buttons (0-9) and **Colour** buttons to select Teletext pages.

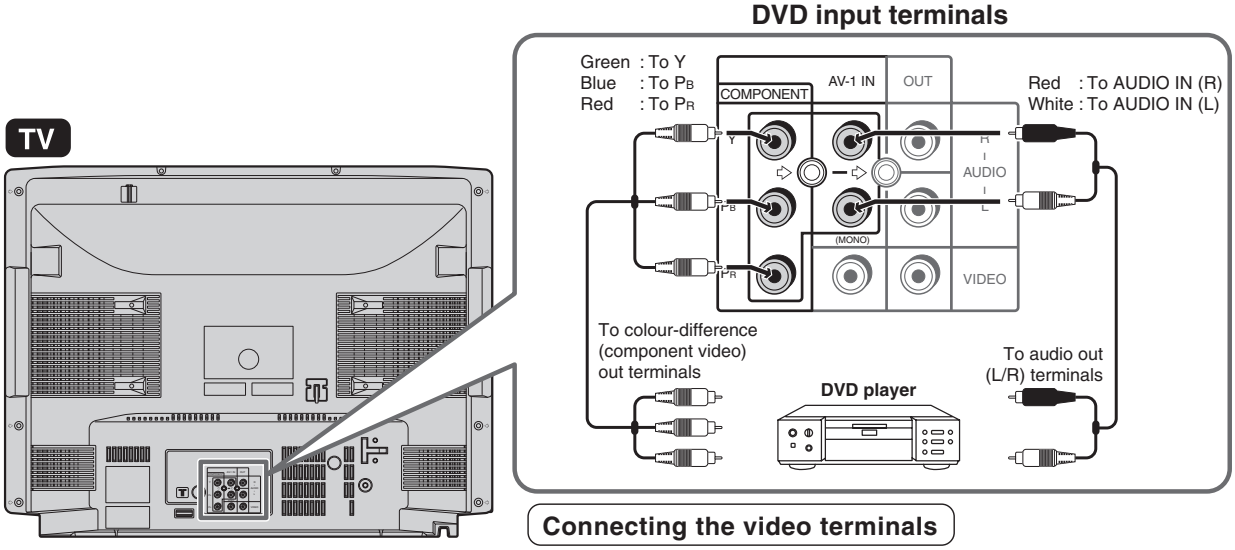
(Reset button)

- Press to return to TV mode.
  If is pressed next, the initial page of the Teletext broadcast is re-displayed.

Connections

Connecting to a DVD player

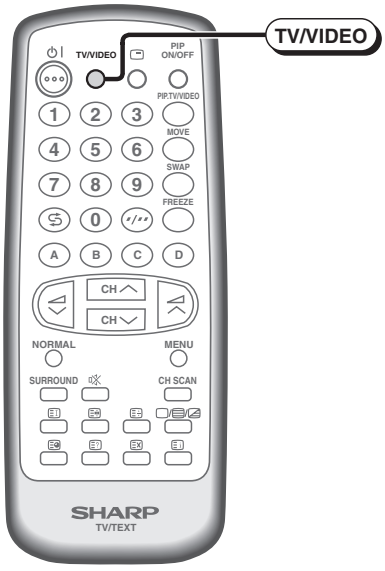
The DVD input terminals (COMPONENT-IN) on the rear of the TV can be used to input high-quality images from a DVD player.



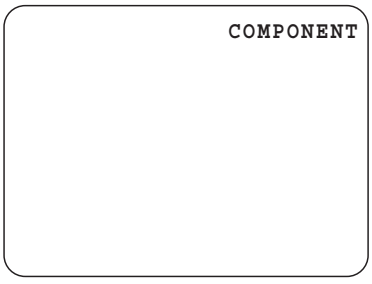
Connecting the video terminals

DVD input terminals		DVD player
COMPONENT-IN VIDEO	Y	Y or Y/Y
	P_B	P_B or B-Y/Pb
	P_R	P_R or R-Y/Pr

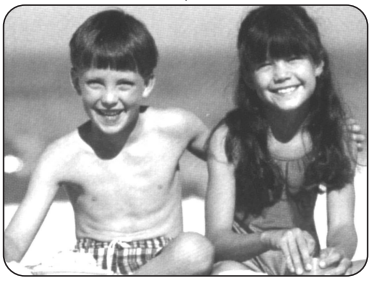
Watching DVD Playback



1 **Press TV/VIDEO to select "COMPONENT", DVD input screen.**



2 **Turn on the DVD player and begin playback.**

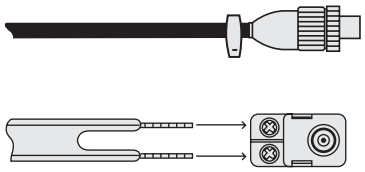


NOTE

- When connecting the TV to a DVD player via the Component-in terminals, the video from the DVD player will be output in black and white through the Audio/Video out terminals on the TV.
- Please refer to the operation manual of your DVD player for more information.
- Be sure to fully insert the plugs of the connecting cables into the terminals on the TV set and video equipment. Failure to do so may result in noise.
- Before connecting the cables, turn off the power of the TV set and video equipment.
- Always remove the cables from the terminals by the plugs and not the cables themselves.

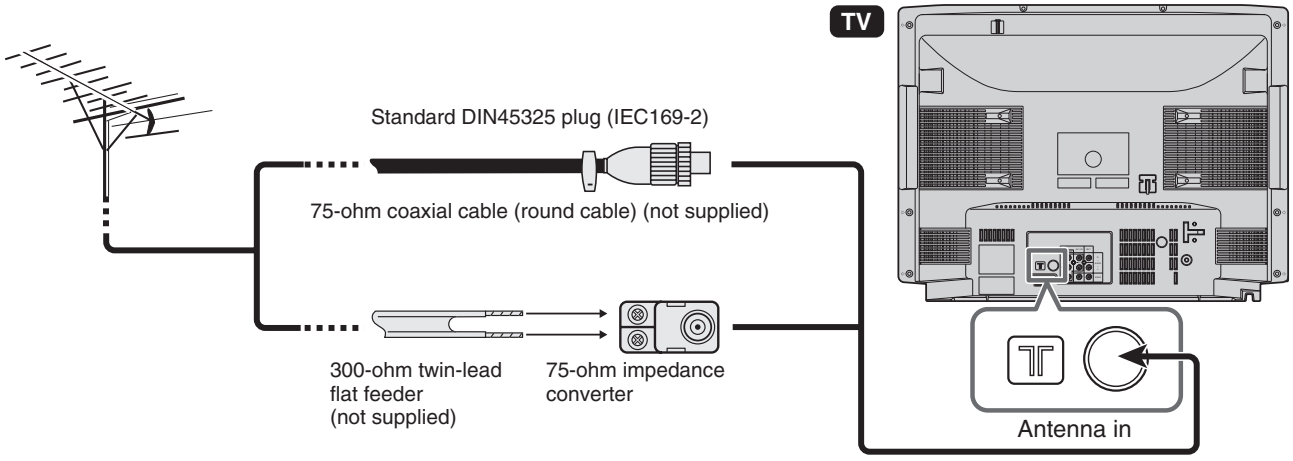
Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial and feeder cables.



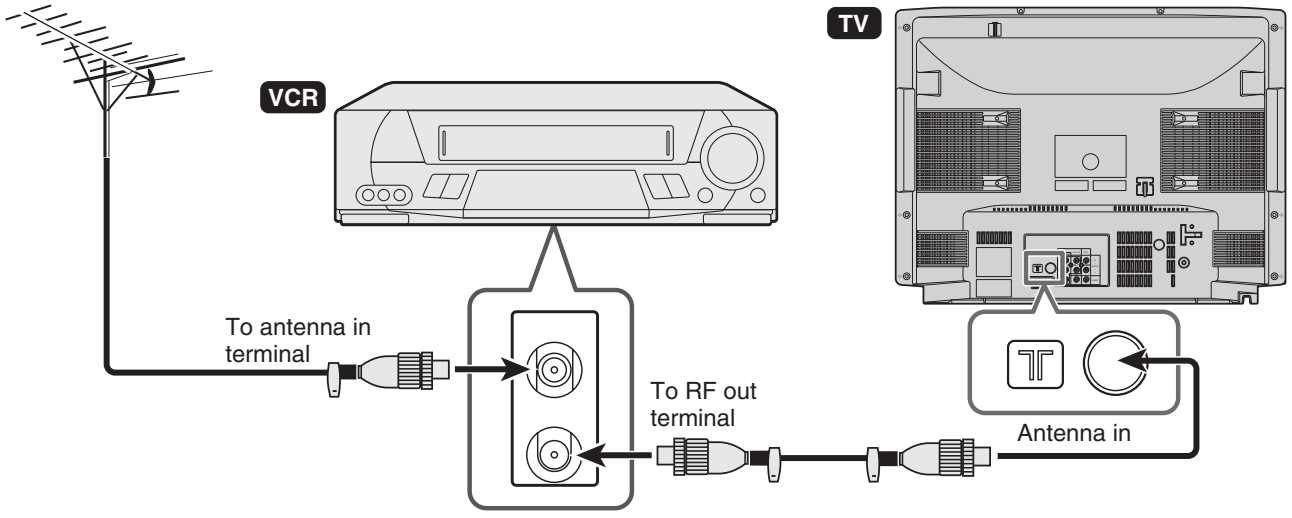
If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.



Connecting to an antenna via a VCR

You can also connect the TV set to the tuner on a VCR using the connection shown below.



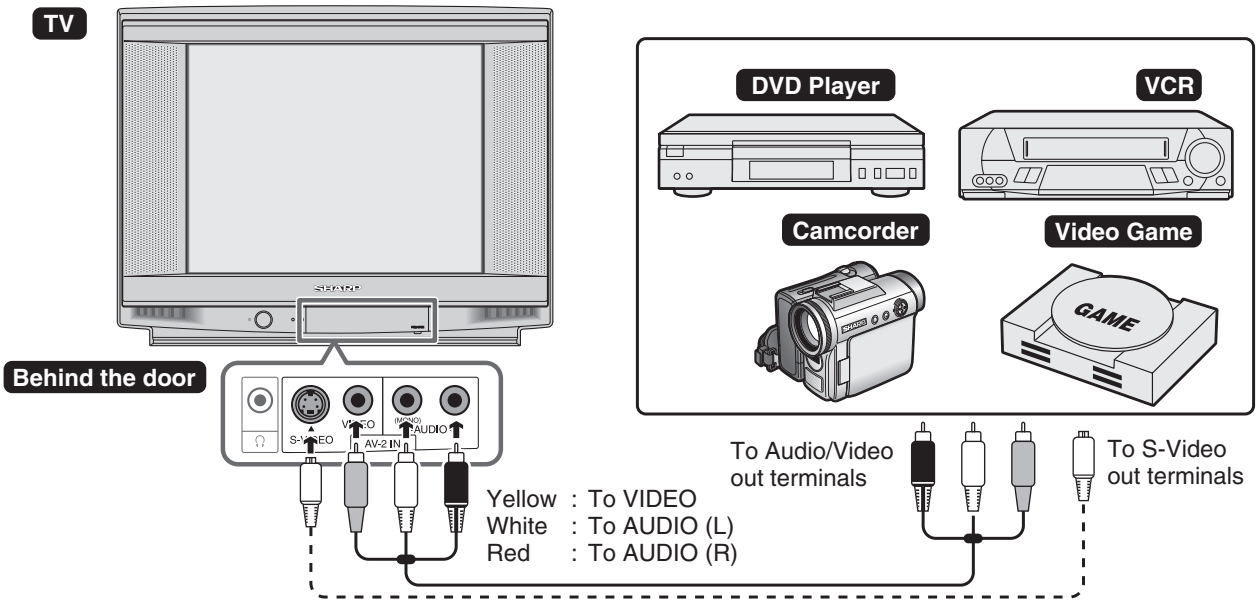
NOTE

- When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.
- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- See the operation manual of your VCR for connection details.

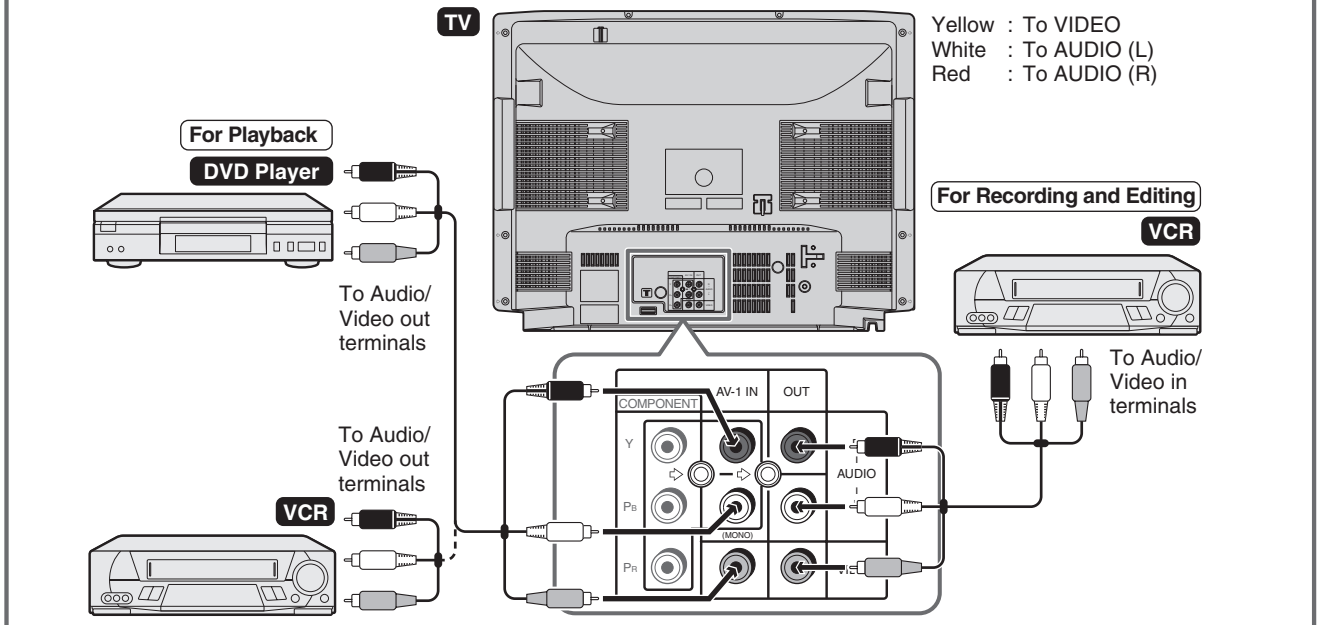
Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



• Video signal input via the COMPONENT IN terminals and S-VIDEO terminal will be output in black and white signal through AUDIO/VIDEO OUT terminals.

NOTE

- The S-VIDEO terminal has priority over the video terminal. (AV2)
- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- For playback of monaural audio, connect the external source to the audio input left terminal on the front or rear of the TV set (MONO) to hear the same sound from both speakers.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.

Troubleshooting

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List / Problems → / Possible Causes/Remedies ↓	Remote control does not work.	Bars on screen	Picture distorted.	Picture rolls vertically.	No colour	Poor reception on some channels	Picture weak.	Picture lines or streaks	Picture ghosting	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
POWER switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

NOTE • This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

Specifications

MODEL			21H-FX3P
Receiving System			World multi 28 system
	TV Broadcasts/ VCR Playback		PAL-I PAL-B/G PAL-D/K SECAM-B/G SECAM D/K, K1 NTSC-M (NTSC standard)
	VCR Playback		NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz NTSC 3.58/5.5 MHz NTSC 3.58/6.0 MHz NTSC 3.58/6.5 MHz SECAM-I (6.0 MHz)
	VCR Playback (Using Video-in terminals)		SECAM-L (French SECAM)
	Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz NTSC 3.58/4.5 MHz/50 Hz
	VCR Playback (Using S-Video in terminal)		S-VIDEO NTSC 3.58 MHz S-VIDEO NTSC 4.43 MHz S-VIDEO PAL S-VIDEO SECAM S-VIDEO SECAM-L
	Special VCR and VDP Playback		Video-in 50/60 Hz S-Video in 50/60 Hz
Reception Channels			
	PAL-B/G SECAM-B/G	VHF	E2–E12 ch
		UHF	E21–E69 ch
	PAL-D/K SECAM-D/K, K1	VHF	C1–C12 ch, R1–R12 ch
		UHF	C13–C57 ch, R21–R69 ch
	PAL-I	VHF	B–J ch
		UHF	21–69 ch (Hong Kong)
	NTSC	VHF	2–13 ch (U.S.), 1–12 ch (Japan)
		UHF	14–69 ch (U.S.), 13–62 ch (Japan)
	CATV		S1–S20 ch, S21–S41 ch (Hyper)
Receiving Frequency			44.25 MHz – 863.25 MHz
Teletext Language			English/French/Turkish/Persian
Channel Tuning			100-Channel Electronic Tuner with Full Auto Tuning System
Picture Tube			21-Inch Flat CRT
Terminals			Audio/video input × 2 (front × 1, rear × 1), DVD input (COMPONENT-IN) × 1 (rear) Audio/video output × 1 (rear), Headphone jack × 1 (front), S-Video input × 1 (front)
Sound Output			7.5 W (RMS) × 2, total 15 W (RMS)
Power Source			AC 110 – 240V, 50/60 Hz
Power Consumption			113 W
Dimensions			618 (W) × 471 (H) × 494 (D) mm
Weight			25.5 kg (Approx.)

NOTE

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.
- Reception channels: Some examples of the main receivable channels are shown above.

Notes

Other ManualsLib Projects

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